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REPORT

CD NO.

DATE OF INFORMATION 1949

DATE DIST. 28 Nov 1949

NO. OF PAGES 2

SUPPLEMENT TO
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SOURCE Newspapers and periodicals as indicated.

REPORT NEW MACHINE TOOLS:
MECHANIZE PRECISION INSTRUMENT MANUFACTURE

NEW RELAYS, SWITCHES NOTED -- Stanki 1 instrument, No 6, Jun 49

Trapitsyn, author of Avtomaticheskkiye stanochnyye liniy v mashinostroyeni (Automatic Transfer Machine Lines in Machine Building) describes and recommends various types of equipment for electroautomatization of automatic transfer machine lines which are obsolete and have been out of production for some time. The Series RPOO intermediary relay, for instance, has been replaced by the more modern KP-41 relay. The VK-111 end switch in automatic lines has been replaced by the VK-211.

CYLINDER-HONING EXPERIMENT -- Stanki 1 instrument, No 5, May 49

Tests on the effectiveness of the Model 117 horizontal honing machine in finishing cylinder bores have recently been made. A standard KNIMS 90-millimeter honing head with six 6 x 6 x 180-millimeter hones, set in one row, was used for the tests. A special device for indicating circumferential and axial force was employed. Dynamometers read to an accuracy of 0.01 millimeters. All hones were tested for hardness on a Rockwell press.

It was demonstrated that honing was far more expensive than grinding. For this reason it is important that surfaces to be honed first be ground to an absolute minimum allowance. The honing itself must be done in two operations, a roughing with coarse hones followed by a fine hone finish.

MICROMETERS IN CONTINUOUS PRODUCTION -- Vechernyaya Moskva, No 207, 31 Aug 49

The conveyor-belt system is used in the micrometer shop in the Kalibr Plant. Micrometer anvils, which were formerly machined on cylindrical grinding machines, are now put through a centerless grinding machine. The operation requires only one worker where three used to be needed.

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KHAR'KOV SHOWS TOOLS -- Pravda, No 237, 25 Aug 49

An exhibit devoted to industrial achievements is currently showing in the city of Khar'kov. Among the locally-produced items on display are dozens of different machine tools.

TRAIN MACHINE-TOOL OPERATORS -- Komsomol'skaya Pravda, No 200, 25 Aug 49

During the coming academic year, Trade School No 7 will train more than 500 lathe operators, milling-machine operators, gauge-makers, tool-makers, electric welders, copper-smiths and tinsmiths.

ATTACHMENT FOR BROACHING SPIRAL GROOVES -- Stanki 1 instrument, No 6, Jun 49

Previously, the manufacture of a part having two spiral grooves required 10 minutes of machining time for each piece. Now, a special broach and attachment for drawing spiral grooves which reduce to one minute the time required for machining one piece have been designed. The broach, while initiating the first movement, forces the part being broached to turn by means of spiral grooves which are made on the broach itself.

INTRODUCE IMPROVED GRINDING MACHINE -- Volga, No 138, 16 Jul 49

The Ship Repair Plant imeni Stalin in Astrakhan' Oblast has put into operation a locally-produced machine tool for nonabrasive grinding of cutting tools. Up to this time, Astrakhan' plants had been using expensive stone blocks as abrasives in grinding. The new machine is electrically operated and completes a grinding job in 3 - 5 minutes instead of several hours.

The machine is assembled from an emery roughing machine tool and is simple to operate. Development of the design, the experimental work, and the assembly of the machine were done under the direction of L. Kurin, engineer of the plant. The successful introduction of the machine into the plant has enabled it to centralize dressing of cutting tools and to realize considerable savings.

NEW OXYGEN CUTTING TORCH -- Stanki 1 instrument, No 6, Jun 49

The oxyacetylene industry has started the production of RVP-49 cutters which are intended for the metallurgical industry and other related industries. This cutter has many advantages over the RVP-47, and its remodeled version, the RVP-48.

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